

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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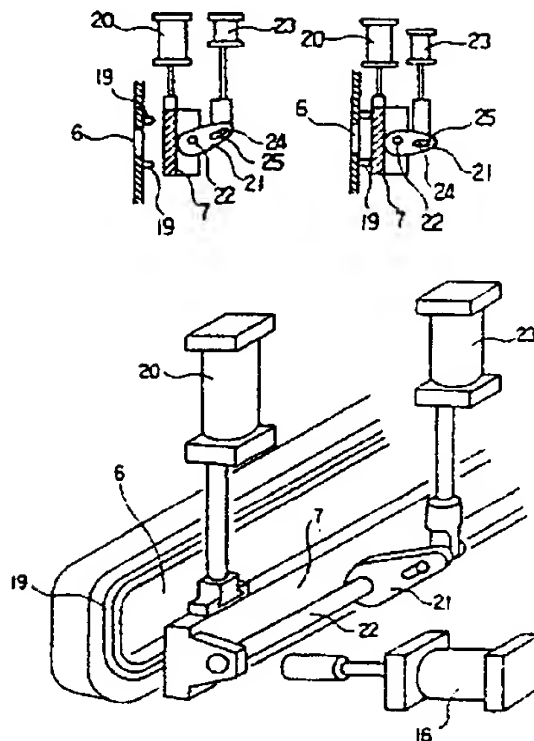
APPLICATION DATE : 11-06-87  
APPLICATION NUMBER : 62145757

APPLICANT : NIPPON KENTETSU CO LTD;

INVENTOR : FUTAGAWA JUNZO;

INT.CL. : F16K 3/18

TITLE : GATE VALVE DEVICE OF VACUUM  
DEVICE



ABSTRACT : PURPOSE: To improve the sealing ability by pressing the longitudinal middle portion of a gate valve by an eccentric cam after the gate valve is positioned opposite to an opening portion of a processing room.

CONSTITUTION: A gate valve 7 is moved upward or downward to position opposite to an opening portion 6 by operation of a vertical cylinder 20. Both ends of the gate valve 7 are pressed by a pressing cylinder 16 to be brought into pressure contact with a packing 19. When a cam cylinder 23 is operated, a piston 24 is moved to the root side of an elongated hole 25, so that an eccentric cam 21 presses the longitudinal center of the back of the gate valve 7 to increase the pressing force of the central portion. Accordingly, the gate valve is always free from problems such as disadvantages and looseness of an adjust screw due to deformation, and suitable pressing force can be obtained over a long period of time.

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